

For the first time, the authors have shown that the β -phase of the Fe_2O_3 system is stable at high temperatures and pressures. The β -phase is a new phase of the Fe_2O_3 system, and its discovery is a significant contribution to the understanding of the phase behavior of this system. The authors have also shown that the β -phase is a new phase of the Fe_2O_3 system, and its discovery is a significant contribution to the understanding of the phase behavior of this system.